

ABSTRACT OF THE DISCLOSURE

A double insulated electronically commutated brushless motor for coupling to a gearbox of a motor driven product. The motor includes a first layer of electrical insulation that includes a plurality of insulating strips formed in the shape of stator slots and inserted into the stator slots before windings are wound in the stator slots. Additionally, the first layer of electrical insulation includes a plurality of insulating strips wedged between the winding and a mouth of the winding slots after the windings are inserted. The motor further includes a second layer of electrical insulation made up of an insulating tube pressed onto a shaft between the shaft and a rotor stack.

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